IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Hanae KAKU et al.

Serial No.:

10/591,576

Group No.:

Filed:

08/31/2006

Examiner:

For:

Chitin Oligosaccharide Elicitor-Binding Proteins

INFORMATION DISCLOSURE STATEMENT

MS PCT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

CERTIFICATE OF MAILING UNDER 37 CFR § 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450, on May 16, 2007.

Cliff Cannon-Cin

Dear Sir or Madam:

The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. § 1.56 and § 1.97. The Examiner is requested to make these citations of official record in this application:

- Publication No. US 2005/0034189 A1 of Minami et al., "Chitin oligosaccharide elicitor and gibberellin responsive genes in plants and uses thereof (2005) as English translation of related Publication No. WO 2003/054196 A1;
- Publication No. WO 2003/000906 A2 of Glazebrook et al., "Plant disease resistance genes" (2003) provided by WIPO;
- Publication No. WO 2003/054196 A1 of Minami et al., "Chitin oligosaccharide elicitor and gibberellin responsive genes in plant and utilization thereof' (2003) see Publication No. US 2005/0034189 A1 as English translation;
- Baureithel et al., "Specific, high affinity binding of chitin fragments to tomato cells and membranes," J Biol Chem, 269:17931-17938 (1994);

- Day et al., "Binding site for chitin oligosaccharides in the soybean plasma membrane," Plant Physiology, 126:1162-1173 (2001);
- He *et al.*, "Gene activation by cytoplasmic acidification in suspension-cultured rice cells in response to the potent elicitor, *N*-acetylchitoheptaose," *MPMI*, 11:1167-1174 (1998);
- Ito *et al.*, "Identification of a high-affinity binding protein for *N*-acetylchitooligosaccharide elicitor in the plasma membrane of suspension cultured rice cells by affinity labeling," *Plant J*, 12:347-356 (1997);
- Kaku *et al.*, "Rice chitin oligosaccharide elicitor," Proceedings of the Annual Meeting and 41st Symposium of the Japanese Society of Plant Physiologists, p. 162 (F306) (2001) provided by WIPO;
- Kikuyama *et al.*, "Membrane depolarization induced by *N*-acetylchitooligosaccharide elicitor in suspension-cultured rice cells," *Plant Cell Physiol*, 38:902-909 (1997);
- Minami *et al.*, "Two novel genes rapidly and transiently activated in suspension-cultured rice cells by treatment with *N*-acetylchitoheptaose, a biotic elicitor for phytoalexin production," *Plant Cell Physiol*, 37:563-567 (1996);
- Okada et al., "Identification of a high-affinity binding protein for N-acetylchitooligosaccharide elicitor in the plasma membrane from rice leaf and root cells,"
 J Plant Physiol, 158:121-124 (2001);
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- Shibuya *et al.*, "Identification of a novel high-affinity binding site for *N*-acetylchitooligosaccharide elicitor in the membrane fraction from suspension-cultured rice cells," *FEBS Letters*, 329:75-78 (1993);
- Shibuya *et al.*, "Localization and binding characteristics of a high-affinity binding site for *N*-acetylchitooligosaccharide elicitor in the plasma membrane from suspension-cultured rice cells suggest a role as a receptor for the elicitor signal at the cell surface," *J Plant Physiol*, 37:894-898 (1996);
- Takai *et al.*, "Isolation and analysis of expression mechanisms of a rice gene, EL5, which shows structural similarity to ATL family from *Arabidopsis*, in response to *N*-acetylchitooligosaccharide elicitor," *Plant Science*, 160:577-583 (1993);

- Yamada *et al.*, "Induction of phytoalexin formation in suspension-cultured rice cells by *N*-acetylchitooligosaccharides," *Biosci Biotech Biochem*, 57:405-409 (1993);
- Yamaguchi *et al.*, "Activation of phospholipases by *N*-acetylchitooligosaccharide elicitor in suspension-cultured rice cells mediates reactive oxygen generation," *Physiologia Plantarum*, 118:361-370 (2003);
- GENBANK Accession No. AC099399 (2001) provided by WIPO; and
- GENBANK Accession No. AK073032 (2001) provided by WIPO.

This Information Disclosure Statement under 37 C.F.R. § 1.56 and § 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: May 16, 2007

Christine A. Lekutis Registration No. 51,934

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Applicant: Hanae Kaku

Serial No.: 10/591,576

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary) (37 CFR § 1.98(b))					Filing or 371(c) Date: 08/31/2006 Group Art Unit:					
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